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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/081,109	02/25/2002	Shinsuke Sakamoto	4329.2270-01 4805		
22852	7590 09/24/2003				
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20005			EXAMINER		
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WASHINGTO	ON, DC 20005		ART UNIT	PAPER NUMBER	
		2815			
			DATE MAILED: 09/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

### Application No. Applicant(s) 10/081,109 SAKAMOTO ET AL. Office Action Summary Examiner Art Unit 2815 Eugene Lee -- Th MAILING DATE of this communication app ars on the cov r sh et with the correspondenc address --**Period for Reply** A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) 🖾 Responsive to communication(s) filed on 02 September 2003. This action is FINAL. 2b) ☐ This action is non-final. 2a)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 3) closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) $\boxtimes$ Claim(s) <u>1,6-8,10 and 15-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) <u>1,6-8,10 and 15-20</u> is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on <u>25 February 2002</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) $\square$ Some \* c) $\square$ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_ 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

I)	Ш	Notice o	of Reference	ces Cited	(PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

4) 🗌	Interview Summary (PTO-413) Paper No(s)
5\ 🗀	Notice of Informal Patent Application (PTO-152)

6) Other:

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/2/03 has been entered.

#### **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a first wiring comprising one end positioned in said first pad and comprising the other end positioned in the peripheral portion of the inner region of the chip, and a second wiring comprising one end positioned in the second pad and comprising the other end positioned in the peripheral portion of the inner region of the chip must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/081,109 Page 3

Art Unit: 2815

### Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

matter which applicant regards as the invention.

inner region of the chip (chip inner area).

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 6 thru 8, 10, and 15 thru 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject

portion of the inner region of the chip, and a second wiring comprises the other end positioned in the peripheral portion of the inner region of the chip. In FIGs. 1 and 2, it appears that the other end of the first wiring is positioned (over via 15) in the chip outermost peripheral area and not in the inner region of the chip (chip inner area), and the other end of the second wiring is positioned (over via 18) in the chip outermost peripheral area and not in the

It is unclear what the referring to in the limitation "a first pad arranged on a wiring level different from said first I/O slot and arranged above the first I/O slot without being connected to the first I/O slot." In FIG. 1, it appears that the first pad 12a is part of first I/O slot 11a and is therefore "connected" to the first I/O slot.

## Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

Application/Control Number: 10/081,109 Page 4

Art Unit: 2815

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Insofar as definite, claims 1, 6 thru 8, 10, and 15 thru 20 are rejected under 35

U.S.C. 103(a) as being unpatentable over admitted prior art in view of Janai et al. '967. The admitted prior art discloses (see, for example, FIG. 4) a semiconductor integrated circuit device comprising a first I/O slot 11a, second I/O slot 11b, first pad 12a, second pad 12b, first wiring 14, and second wiring 17. The admitted prior art does not disclose a third wiring and a fourth wiring. However, Janai shows (see, for example, FIG. 1A) an integrated circuit device comprising horizontal metal strips M1 and vertical metal strips (third and fourth wiring) M2. The metal strips are formed on different levels by way of vias. This arrangement accommodates a large number of interconnecting lines and allows specific routing interconnections to be made. See, for example, columns 1 and 2. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to include the vertical metal strips of Janai's invention in order to customize a semiconductor device (without changing the basic metal wiring pattern) without increasing its general complexity.

#### Response to Arguments

7. Applicant's arguments with respect to claims 1, 6-8, 10, and 15-20 have been considered but are most in view of the new ground(s) of rejection.

Application/Control Number: 10/081,109

Art Unit: 2815

INFORMATION ON HOW TO CONTACT THE USPTO

Page 5

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eugene Lee whose telephone number is 703-305-5695. The

examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Eddie C. Lee can be reached on 703-308-1690. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-308-7722 for regular

communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Eugene Lee

September 21, 2003

CHILD RVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800